

AIR-IN-LINE AND PRESSURE DETECTION

Abstract of the Disclosure

Methods and apparatus for air content and pressure measurement of sample fluid, especially sample fluid in association with an infusion pump. Volume change in a chamber as the chamber transitions between negative and positive pressure relates to the air content in the chamber. In particular, in an infusion pump, the volume change of infusion fluid as it transitions between being under negative pressure and positive pressure within a cassette central chamber, *e.g.*, pumping chamber, relates to the air content in the infusion fluid. The outlet pressure of the cassette central chamber, *e.g.*, blood pressure, can be monitored based on the cassette central chamber pressure.

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